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(71) Applicant (for all designated States except US): NISSAN
MOTOR CO., LTD. [JP/JP]; 2, Takara-cho, Kana-
gawa-ku, Yokohama-shi, Kanagawa 2210023 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SHIMOI, Ryoichi
[JP/JP]; 4-36-13, Tomiokanishi, Kanazawa-ku, Yoko-
hama-shi, Kanagawa 2360052 (JP). OHMA, Atsushi
[JP/JP]; 1-43-20, Oooka, Minami-ku, Yokohama-shi,
Kanagawa 2320061 (JP). ONO, Yoshitaka [JP/JP];
3-15-8-505, Morisaki, Yokosuka-shi, Kanagawa 2380023
(JP).

(74) Agent: GOTO, Masaki; Shoyu-Kaikan, 3-1, Kasumi-
gaseki 3-chome, Chiyoda-ku, Tokyo 1000013 (JP).

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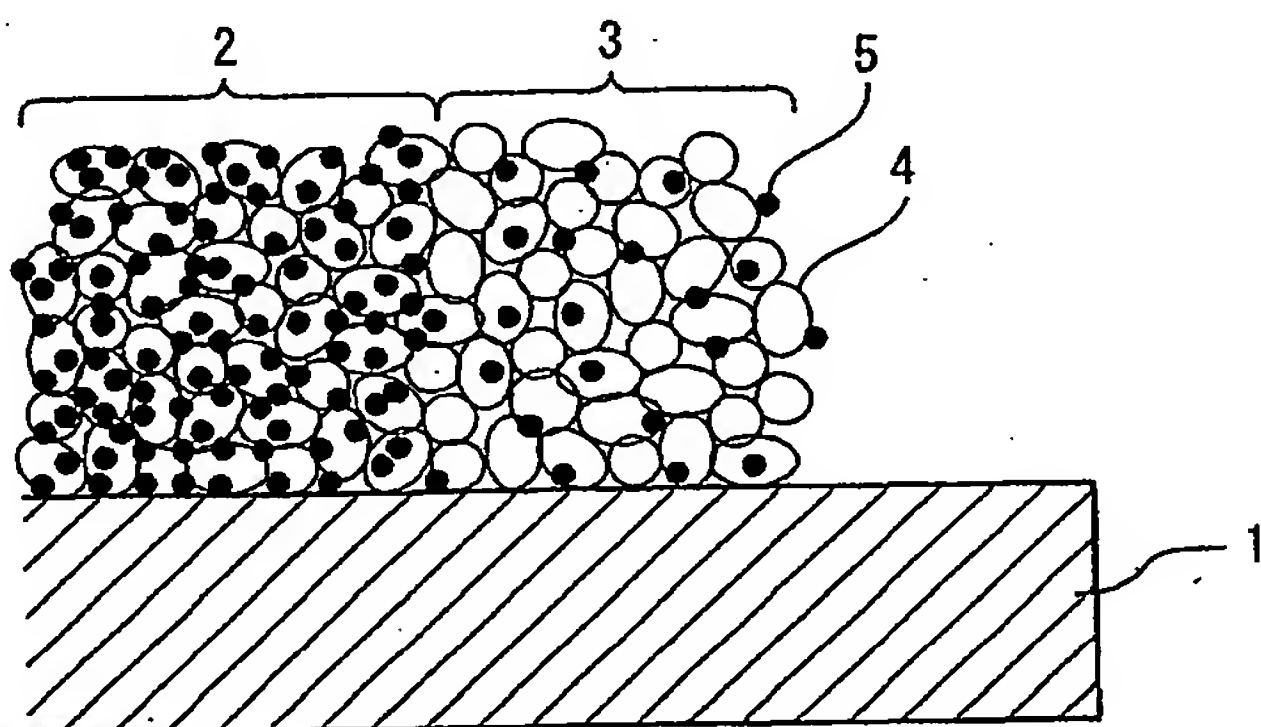
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(57) Abstract: A catalyst layer 2 is formed by
conductive particles (4) carrying catalyst particles
5, and a boundary layer (3) is disposed adjacent
to the catalyst layer 2 and is positioned between
a portion which is easily contacted with an oxy-
gen gas and the catalyst layer. The boundary layer
3 is formed by the conductive particles 4 carry-
ing the catalyst particles 5 and the catalyst-carry-
ing amount of conductive particles in the catalyst
layer 2. Or a hydrophilic treatment is carried out
to the conductive particles 4 of the boundary layer
3 by a hydrophilic material, while the conductive
particles 4 in the boundary layer 3 do not carry the
catalyst particles 5.